

### **PCT**

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 15 JUN 2004

•			WIDO POT	
Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Tran	namuaPontemationaPCT n Report (Form PCT/IPEA/41	16)
SCH/P33118				
international application No.	International filing date (day/mor		y date (day/month/year)	
PCT/EP 03/10930	25.09.2003	27.09	9.2002	·
International Patent Classification (IPC) or b	oth national classification and IPC			
C07D213/82, C07D213/82				
				-
AppMoant				
GLAXO GROUP LIMITED et al.				
This international preliminary example.	mination report has been prepa	ared by this Internation	al Preliminary Examining	
Authority and is transmitted to the	applicant according to Article	36.		1
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a mi propri continue de tatal	of 4 shoots including this cove	er sheet	•	
2. This REPORT consists of a total	of 4 sheets, including this cove	ei Sileet.		
☐ This report is also accompa	nied by ANNEXES, i.e. sheets	of the description, clai	ms and/or drawings which	n have
hear amended and are the	hasis for this report and/or sne	ers containing rectine	IIIO 13 III aug Deloie ii iis Ac	ıthority
(see Rule 70.16 and Section	n 607 of the Administrative Ins	aructions under the PO		
These annexes consist of a total	of sheets.	•		
				_
3. This report contains indications	relating to the following items:			
I ☑ Basis of the opinion				
II ☐ Priority III ☑ Non-establishment of	f opinion with regard to novelty	, inventive step and inc	dustrial applicability	
1		,		
IV   Lack of unity of invention  V   Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicabilit			ability;	
V 🗵 Reasoned statemen citations and explan	ations supporting such stateme	int	•	
VI   Certain documents of				
	e international application			
	• •			
Date of submission of the demand	Date	e of completion of this rep	ort	
Date of submission of the demand				
00.00.0004	14	06.2004		
29.03.2004	14.	J. 200 i	_	
Name and mailing address of the internat	onal Auti	horized Officer		Ans Peters
preliminary examining authority:			. And the second second	11 j
European Patent Office D-80298 Munich	Scl	hmid, J-C		<i>(</i> ))) }
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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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۱.	Basis	of the	report

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages					
	1-109		as originally filed				
	Clair	ms, Numbers					
	1-9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	as originally filed				
2.	18 <i>1</i> !al.	regard to the langua uage in which the inte	ge, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.				
	_		ailable or furnished to this Authority in the following language: , which is:				
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publi	ication of the international application (under Rule 48.3(b)).				
	the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).						
з.	With inte	n regard to any <b>nucle</b> rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
	☐ contained in the international application in written form.						
		filed together with the	e international application in computer readable form.				
		furnished subsequer	ntly to this Authority in written form.				
		The state of the s					
		and the disclosure lighter does not as howard the disclosure to the disclosure that the disclosure thas the disclosure that the disclosure that the disclosure that th					
		the information recorded in computer readable form is identical to the written sequence ished.					
4	. The	e amendments have r	resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5	. <b>□</b>	n established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).					
		(Any replacement s report.)	sheet containing such amendments must be referred to under item 1 and annexed to this				
6	S. Ad	ditional observations,	, if necessary:				

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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		-establishment of opinion with						
۱.	The obv	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- vious), or to be industrially applicable have not been examined in respect of:						
☐ the entire international application,								
	☒	claims Nos. 8,9 (IA)						
		because:						
the said international application, or the said claims Nos. 8,9 (IA) relate to the following sudoes not require an international preliminary examination (specify):						late to the following subject matter which	l	
		see separate sheet						
<ul> <li>the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unthat no meaningful opinion could be formed (specify):</li> <li>the claims, or said claims Nos. are so inadequately supported by the description that no meaningful could be formed.</li> </ul>								
						ne description that no meaningful opinion		
		no international search report h						
<ol> <li>A meaningful international preliminary examination cannot be carried out due to the failure of the nucleoti or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:</li> </ol>							ut due to the failure of the nucleotide and r in Annex C of the Administrative	/
		the written form has not been t	furnish	ed or does n	ot compl	y with th	e Standard.	
		the computer readable form ha	as not l	been furnish	ed or doe	es not co	omply with the Standard.	
٧	. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1	. St	atement					•	
	No	ovelty (N)	Yes: No:	Claims Claims	1-9			
	In	ventive step (IS)	Yes: No:	Claims Claims	1-9			
	in	dustrial applicability (IA)	Yes: No:	Claims Claims	1-7			
2	2. C	itations and explanations						

see separate sheet

#### International application No. PCT/EP 03/10930 INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

Reference is made to the following document:

D1: WO 02 062750 A (SCHERING CORP) 15 August 2002 (2002-08-15)

### **SECTION III**

Claims 8 and 9 relate to subject-matter considered by this Authority to be covered by the

provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

#### SECTION V

- The subject-matter of claim 1 is novel over D1 on account of the 2-aminopyridine 1). moiety of the claimed derivatives (Article 33(2) PCT).
- The application is concerned with CB2 receptors modulators. 2).

D1 which discloses compounds that bind to cannabinoid (CB2) receptors is regarded as representing the closest prior art.

In view of this prior art, the technical problem underlying the application is seen in the provision of further CB2 receptors modulators.

The skilled man faced with the problem of finding further CB2 receptors modulators would not have arrived at the claimed compounds in the light of D1 having regard to the huge structural differences between the claimed derivatives and those of D1.

The subject-matter of claims 1 to 9 involves therefore an inventive step (Article 33(3) PCT).